

LOCKHEED AIRCRAFT CORP.		ENGINEERING STUDY <input type="checkbox"/>		LAC - 167	
		CHANGE PROPOSAL <input checked="" type="checkbox"/>			
DATE 20 SEPTEMBER 1963		AFFECTS: WSPO <input type="checkbox"/>		PROJECT <input checked="" type="checkbox"/>	
NAME OF MAJOR COMPONENT		PART OR LOWEST SUBASSEMBLY		PART NO. & MODEL OR TYPE	
TITLE OF PROPOSAL : SYST. 15 ANTENNA ISOLATION IMPROVEMENT					
NATURE OF PROPOSAL :  SEE PAGE 2					
REASON FOR PROPOSAL :  SEE PAGE 2					
ESTIMATED COST AND TIME INVOLVED : ADDITIONAL FUNDING REQUIRED :					
ES					
CP		ESTIMATED COST FOR KITS OR PARTS : 25X			
		ADDITIONAL FUNDING REQUIRED : None SP-1922			
ITEMS AFFECTED BY PROPOSAL :					
SAFETY <input type="checkbox"/>	MISSION EFFEC- TIVENESS <input checked="" type="checkbox"/>	PERFORM- ANCE <input type="checkbox"/>	OPERATING PROCEDURE <input type="checkbox"/>	INTER- CHANGE- ABILITY <input type="checkbox"/>	WEIGHT OR WEIGHT & BALANCE <input type="checkbox"/>
EST. MAN/HRS. REQ'D. TO ACCOMPLISH CHANGE IN FIELD					
SOURCE OF PARTS FOR KIT LAC			AVAILABILITY 9 WEEKS AFTER APPROVAL		
DISPOSITION OF SPARES AFFECTED NONE			Concur: OD/OSA EAD/OSA		
INITIATED BY :			Approved For Release 2002/08/21 : CIA-RDP89B00980R000200170083-4		

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**NATURE OF PROPOSAL:**

AN-W75 absorbent material will be installed on the inner surface of the System 15 radome between the antennas. 17 Pieces, 2.50 in. x 12.75 in., will be installed between the beads of the radome. One piece, 7.50 in. x 11.00 in., will be installed on the access door. The absorbent is 1 3/8 inch thick, self extinguishing, and weatherproofed with a neoprene coated nylon fabric. The absorbent complies with MIL-C-20696 and has a cut off point of 2.0 GC.

The absorbent will be bonded to the radome surface with a compatible cement recommended by the absorbent manufacturer.

Tests by the manufacturer of System 15 show that this type of installation will provide 70 db, or better, attenuation between antennas.

**REASON FOR PROPOSAL:**

System 15 was designed to operate with a minimum antenna isolation of 70 db. Tests conducted by the manufacturer of System 15 indicate that this isolation is not attained in the present System 15 installation. These tests also showed that AN-W75 absorbent material will provide the proper antenna isolation.

It is the Contractor's understanding that the manufacturer of System 15 is negotiating modifications to the system which will allow satisfactory operation with a minimum antenna isolation of 50 bd.

These modifications and the changes listed above will provide a "safety factor" of 20 db between the isolation provided and the isolation required for satisfactory operation.

Prepare and issue Service Bulletin Kits.